

PUMP HOUSING HAVING INTEGRATED REDUCTION GEAR

BACKGROUND OF THE INVENTION

1. Field of the Invention

[0001] The present invention concerns a roller pump that performs pumping action pressing an elastic tube installed in the roller pump with a roller rotation apparatus. Particularly, the present invention concerns an improvement of such a roller pump suitable for medical application.

2. Description of the Prior Art

[0002] In a roller pump of the prior art, a brushless DC motor (for example) is used as a driver that drives the roller pump through a reduction gear with a comparatively large reduction ratio.

[0003] Such reduction gear generally comprises a gear train assembled in a separated independent case.

[0004] A pump housing, the reduction gear and the motor, each manufactured separately, are connected to compose the roller pump.

[0005] An inner surface of the pump housing has a cylindrical form. This cylindrical form is rather complicated. It has a progressively longer radius in the vicinity of inlet and outlet

Substitute
Specification
filed 12/16/04
OKing to
enter
BZS
3/17/05